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(54) ANTIBIOTIC DC-81 AND ITS PREPARATION

and water, slightly soluble in ethyl ether, and n-hexane.

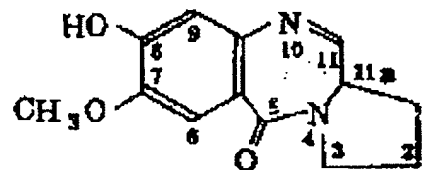
(57) Abstract:

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NEW MATERIAL: An antibiotic DC-81 shown by the formula.

USE: An antibacterial agent, and disinfectant. Having antibacterial activity and antitumor activity.

PROCESS: A bacterium such as DC-81 strain (FERM-P 6502) belonging to the genus Streptomyces, capable of producing DC-81, is cultivated in a medium, DC-81 is accumulated in the culture, and DC-81 shown by the formula is collected from the culture. Properly, the culture temperature is 25W40°C, and the pH of the medium is 4W10. Having the following physical and chemical properties. Melting point: 98W105°C, molecular weight: 246 (mass spectrum method), molecular formula: C₁₃H₁₄O₃N₂; specific rotatory power; [α]_D²²=+135° (c 0.2, methanol); solubility: easily soluble in DMSO, methanol, etc., soluble in ethyl acetate,



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